Sediment Smear Slide / Thin Section Description Sheet

Date 12/10/12

Expedition: 338 Observer: KLm

Site: C0002 Hole: H Core: 1R Sect.: 1 Interval: 14

Sediment Name: silty claystone

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Select one and check.

Percent Texture		
Sand	Silt	Clay
1	29	70

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
35	Quartz
34	Feldspars
	Micas
	Ferromagnesian Minera
	Glauconite
65	Clay Minerals
	Zeolites
1	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Gra
	Igneous Lithic Grain
	Metamorphic Lithic Gr
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
F	Radiolarians
	Sillicoflagellates
F	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Frag
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks: blue tourmaline

Sediment Smear Slide / Thin Section Description Sheet

Date 12/11/12

Expedition: 338

Observer: KLM

Site: C0002 Hole: H Core: 1 Sect.: 1 Interval: 45

Sediment Name: silty claystone

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Select one and check.

Percent Texture		
Sand	Silt	Clay
2	28	70

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
27	Quartz
21	Feldspars
	Micas
	Ferromagnesian Minera
	Glauconite
50	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Gra
	Igneous Lithic Grain
	Metamorphic Lithic Gr
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
20	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Frag
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
1	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
2	Pyrite Grain crystal
	Opaque Grain

Fill percentage (Total must be 100).

Remarks: well-preserved nannos; include discoasters

Sediment Smear Slide / Thin Section Description Sheet

Date 12/10/12

Expedition: 338

Observer: KCM

Site: C0002 Hole: H Core: 1R Sect.: 1 Interval: 48

Sediment Name: silty sandstone

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Select one and check.

Percent Texture		
Sand	Silt	Clay
60	40	0

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
65	Quartz
	Feldspars
	Micas
	Ferromagnesian Minera
	Glauconite
	Clay Minerals
	Zeolites
3	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
15	Sedimentary Lithic Gra
	Igneous Lithic Grain
15	Metamorphic Lithic Gr
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Frag
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
2	Pyrite ~~Grain~~ crystal
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12/11/12

Expedition: 338 Observer: kcm

Site: C0002 Hole: H Core: 1 Sect.: 1 Interval: 92

Sediment Name: Sandy siltstone

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic

Select one and check.

Percent Texture		
Sand	Silt	Clay
30	70	0

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
95	Quartz
95	Feldspars
	Micas
	Ferromagnesian Minera
	Glauconite
	Clay Minerals
	Zeolites
2	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
2	Sedimentary Lithic Gra
	Igneous Lithic Grain
	Metamorphic Lithic Gr
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Frag
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
1	Pyrite ~~Grain~~ crystals
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12/11/12

Expedition: 338

Observer: KLM

Site: C0002 Hole: H Core: 1 Sect.: 1 Interval: 102

Sediment Name: silty claystone

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic

Select one and check.

Percent Texture		
Sand	Silt	Clay
0	25	75

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
[illegible]	29 Quartz	15	Nannofossils	1	Calcareous Grain
	Feldspars		Foraminifers		Sapropelic Grain
	Micas		Siliceous Grain		Mn Nodules/ Crusts
	Ferromagnesian Minera		Diatom		Pyrite Grain
	Glauconite		Radiolarians		Opaque Grain
55	Clay Minerals		Sillicoflagellates		
	Zeolites		Sponge Spicule		
	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grai		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Gra		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
	Volcaniclastic Grain		Others		
	Scoria / Pumice		Intraclast		
	Scoria		Carbonate Rock Fragı		
	Pumice		Peloid		
	Volcaniclastic Lithic Grain		Pisolite		
	Picritic Lithic Grain		Calcareous Grain		
	Basaltic Lithic Grain		Dolomitic Grain		
	Andesitic Lithic Grain		Araginitic Graing		
	Dacitic Lithic Grain		Sideritic Graing		
	Rholitic Lithic Grain				
	Crystal Grain				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks: Prominent bright lithol. on CT image — possible dolomite? - Photos

Sediment Smear Slide / Thin Section Description Sheet

Date 12/11/12

Expedition: 338 Observer: KLM

Site: C0002 Hole: H Core: 1 Sect.: 1 Interval: 104

Sediment Name: Silty claystone

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Select one and check.

Percent Texture		
Sand	Silt	Clay
	25	75

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
29	Quartz
29	Feldspars
	Micas
	Ferromagnesian Minera
	Glauconite
65	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Gra
	Igneous Lithic Grain
	Metamorphic Lithic Gra
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
5	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragr
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
1	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks: did not disaggregate well using std. smear method

Sediment Smear Slide / Thin Section Description Sheet

Date 12/11/12

Expedition: 338 Observer: KLM

Site: C0002 Hole: H Core: 1 Sect.: 1 Interval: 129

Sediment Name: Silty claystone

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Select one and check.

Percent Texture		
Sand	Silt	Clay
	35	65

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
33	Quartz	2	Nannofossils	3	Calcareous Grain
	Feldspars		Foraminifers		Sapropelic Grain
	Micas		Siliceous Grain		Mn Nodules/ Crusts
	Ferromagnesian Minera		Diatom	1	Pyrite ~~Grain~~ crystal
	Glauconite		Radiolarians		Opaque Grain
60	Clay Minerals		Sillicoflagellates		
	Zeolites		Sponge Spicule		
	Heavy Minerals			1	red-brown OM
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Gra		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Gr		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
	Volcaniclastic Grain		Others		
	Scoria / Pumice		Intraclast		
	Scoria		Carbonate Rock Fragi		
	Pumice		Peloid		
	Volcaniclastic Lithic Grain		Pisolite		
	Picritic Lithic Grain		Calcareous Grain		
	Basaltic Lithic Grain		Dolomitic Grain		
	Andesitic Lithic Grain		Araginitic Graing		
	Dacitic Lithic Grain		Sideritic Graing		
	Rholitic Lithic Grain				
	Crystal Grain				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12/11/12

Expedition: 338 Observer: KLM

Site: C0002 Hole: H Core: 1 Sect.: 2 Interval: 38

Sediment Name: Sandy siltstone

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Select one and check.

Percent Texture		
Sand	Silt	Clay
30	70	

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
95	Quartz
95	Feldspars
	Micas
	Ferromagnesian Minera
	Glauconite
	Clay Minerals
	Zeolites
2	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
1	Sedimentary Lithic Gra
	Igneous Lithic Grain
	Metamorphic Lithic Gr
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Piciritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Frag
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
2	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12/11/12

Expedition: 338 Observer: KLM

Site: C0002 Hole: H Core: 2R Sect.: 1 Interval: 15

Sediment Name: silty claystone major lithol.

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Select one and check.

Percent Texture		
Sand	Silt	Clay
0	25	75

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
30	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
65	Clay Minerals
	Zeolites
R	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
5	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date: 12/11/12

Expedition: 338

Observer: KLM

Site: C0002 Hole: H Core: 2R Sect.: 1 Interval: 28

Sediment Name: claystone minor

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Select one and check.

Percent Texture		
Sand	Silt	Clay
	20	80

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
	Quartz
18	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
65	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
2	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
15	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks: minor mottles w/in dominant silty claystone

Sediment Smear Slide / Thin Section Description Sheet

Date 12/11/12

Expedition: 338 Observer: KLM

Site: C0002 Hole: H Core: 2R Sect.: 1 Interval: 44

Sediment Name: silty sandstone

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Select one and check.

Percent Texture		
Sand	Silt	Clay
70	30	0

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
90	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
	Clay Minerals
	Zeolites
2	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
3	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
5	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12/11/12

Expedition: 338 Observer: KLM

Site: C0002 Hole: H Core: 2R Sect.: 3 Interval: 20

Sediment Name: Sandy siltstone

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Select one and check.

Percent Texture		
Sand	Silt	Clay
25	75	

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
95	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
2	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
F	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
3	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 12/11/12

Expedition: 338 Observer: KLM

Site: C0002 Hole: H Core: 2 Sect.: 3 Interval: 70

Sediment Name: Silty Sandstone minor lithal

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic

Select one and check.

Percent Texture		
Sand	Silt	Clay
60	35	5

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
80	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
5	Clay Minerals
	Zeolites
2	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
2	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
1	Pyrite Grain
	Opaque Grain
10	red-brown OM

Fill percentage (Total must be 100).

Remarks: dk gray laminae — conc. of terrestrial OM

Sediment Smear Slide / Thin Section Description Sheet

Date 12/11/12

Expedition: 338 Observer: KLM

Site: C0002 Hole: H Core: 2R Sect.: 3 Interval: 80

Sediment Name: silty claystone

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Select one and check.

Percent Texture		
Sand	Silt	Clay
2	23	70

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
30	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
55	Clay Minerals
	Zeolites
1	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
10	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
2	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
1	Pyrite ~~Grain~~ crystals
	Opaque Grain
1	red-brown OM

Fill percentage (Total must be 100).

Remarks: discoasters & other well-preserved nannos

Sediment Smear Slide / Thin Section Description Sheet

Date: 12/11/12

Expedition: 338

Observer: KLM

Site: C0002 Hole: H Core: 2 Sect.: 3 Interval: 124

Sediment Name: Silty claystone (dominant lithol)

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment: Siliciclastic	Granular Sediment: Volcaniclastic	Chemical Sediment: Peragic	Neritic
✓			

Select one and check.

Percent Texture: Sand	Silt	Clay
3	22	75

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
27 (	Quartz	16	Nannofossils		Calcareous Grain
	Feldspars		Foraminifers		Sapropelic Grain
1	Micas		Siliceous Grain		Mn Nodules/ Crusts
	Ferromagnesian Minerals		Diatom	2	Pyrite ~~Grain~~ Crystal
	Glauconite	F	Radiolarians		Opaque Grain
60	Clay Minerals		Sillicoflagellates		
	Zeolites		Sponge Spicule		
	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
	Volcaniclastic Grain		Others		
	Scoria / Pumice		Intraclast		
	Scoria		Carbonate Rock Fragment		
	Pumice		Peloid		
	Volcaniclastic Lithic Grain		Pisolite		
	Picritic Lithic Grain		Calcareous Grain		
	Basaltic Lithic Grain		Dolomitic Grain		
	Andesitic Lithic Grain		Araginitic Graing		
	Dacitic Lithic Grain		Sideritic Graing		
	Rholitic Lithic Grain				
	Crystal Grain				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks: did not disaggregate very well; nannos well-preserved